

ABSTRACT OF THE DISCLOSURE

A smaller, less expensive, parametric audio amplifier system configured to be conformable to cable routing requirements that are no more stringent than that of conventional loudspeaker systems. The parametric audio amplifier system includes an amplifier assembly for amplifying an ultrasonic carrier signal modulated with a processed audio signal, an acoustic transducer assembly for projecting a sonic beam corresponding to the amplified ultrasonic signal through the air to regenerate the audio signal, and a low voltage connection for carrying the amplified ultrasonic signal from the amplifier assembly to the acoustic transducer assembly. The amplifier assembly includes an amplifier for receiving the modulated ultrasonic signal and generating an amplified ultrasonic signal having a low voltage level, and a voltage source for generating a voltage level. The acoustic transducer assembly includes interface circuitry for receiving the amplified ultrasonic signal, and providing a drive signal to an acoustic transducer. The acoustic transducer assembly further includes a bias generator for receiving the voltage level, and providing a bias level to the acoustic transducer.

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